
Course Introduction

Computer Systems Administration
TE2003



Practical Information

- 7.5hp freestanding course
 - Mandatory course in the Network Design and Computer Management programme 60 hp
 - Mandatory course in the IT-Forensics programme 120hp
- Examiner
 - Magnus Jonsson (magnus.jonsson@hh.se)
- Course responsible
 - **Mattias Wecksten** (mattias.wecksten@hh.se)
- Other faculty
 - Mattias Enervall (Lab assistant swedish group)
 - Zain Ul-Abdin (Lab assistant english group)
 - **Wagner Ourique de Morais** (wagner.demorais@hh.se)

Practical Information

- Course webpage
 - <http://www.hh.se/te2003>
 - **Course Material**
 - **Lab System**
 - **Register for Lab exercises and project topics**
- Course literature
 - [IT Essentials: PC Hardware and Software Companion Guide \(4th Edition\)](#)
 - ISBN-10: 1-58713-263-X
- Supplementary material
 - [Professor Messer's CompTIA A+ Training Course](#)
 - **Mike Meyers CompTIA A+ guide to managing and troubleshooting PCs**

Course overview

Main Topics

- Computing basics – an historical viewpoint
- Computer Hardware
 - Low level building blocks
 - CPU, power supply, RAM, BIOS, bus systems, storage...
 - Computer components and peripherals
 - General input/output, video, audio, networking, ...
- Computer Software
 - Operating system basics
 - Installing/ Upgrading MS Windows
 - System Administration & Maintenance
 - Troubleshooting
 - Security

After finishing the course

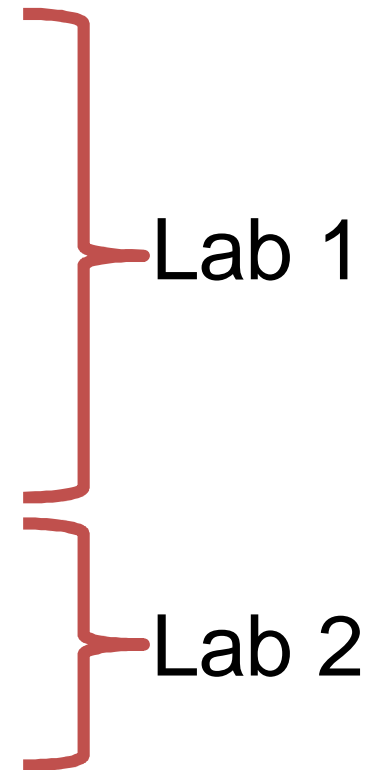
- Declarative knowledge
 - Briefly
 - EXPLAIN the functionality of the main hardware components in a computer
 - DISCUSS typical system administrative tasks
- Functioning knowledge
 - Independently
 - PERFORM:
 - Installation of hardware components in a computer
 - Installation of an operating system
 - Basic administrative tasks in an operating system
 - Identification and isolation of problems
 - SOLVE problems in faulty systems

Teaching and Learning Activities

- 12 Lectures
- 5 compulsory lab exercises
- Each student will elaborate 2 Multiple Choice Questions, including the answers, for each book chapter
 - Swedish group: mattias.wecksten@hh.se
 - English group: wagner.demorais@hh.se
- 1 mandatory seminar
 - Oral presentation and written report
- Written exam

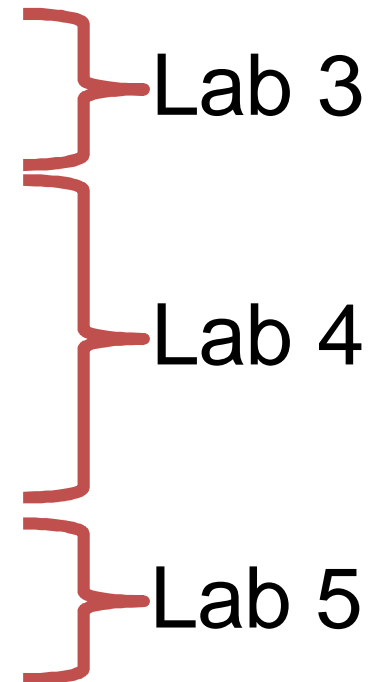
Lectures

- Lecture 1
 - Course introduction
 - Introduction to the PC (Ch. 1)
- Lecture 2
 - Safe lab procedures and tools use (Ch.2)
 - Computer assembly – Step by step (Ch. 3)
- Lecture 3 and 4
 - Advances Personal Computers (Ch. 11)
 - Hardware troubleshooting (Ch. 4)



Lectures

- Lecture 5 and 6
 - Operating systems (Ch. 5)
- Lecture 7
 - Computer Networks (Ch. 8)
- Lecture 8
 - Computer Security (Ch. 9)
- Lecture 9 and 10
 - Advanced Operating Systems (Ch. 12)



Lectures

- Lecture 11
 - Laptops and Portable Devices (Ch. 13)
 - Printers and scanners (Ch. 14)
- Lecture 12
 - Advanced Network (Ch. 15)
 - Advanced Security (Ch. 16)

Lab exercises

- Lab 1 - Computer assembling
 - Disassemble and assemble a PC
 - Identify and describe hardware components
- Lab 2 - Hardware maintenance and troubleshooting
 - Identify faulty components and fix hardware problems
- Lab 3 - Operating system
 - Install and configure MS Windows
- Lab 4 - Software troubleshooting and advanced configuration
 - Configure a network
 - Protect the system
- Lab 5 - Advanced operating system
 - Update, Optimize, CLI, Troubleshooting

Grading Criteria

- Lab exercises: **Pass or Fail**
- Hand-ins: **Bonus for the written exam**
- Seminar presentation and written report: **U (fail), 3, 4 or 5**
- Written exam: **U (fail), 3, 4 or 5**
- Final grade: **U (fail), 3, 4 or 5**
 - Grades combination
- Minimal requirements to PASS, i.e., final grade ≥ 3 :
 - **All five** lab exercises: PASS
 - Written assignment and presentation: 3
 - Written Exam: 3

Advice for students

- Show up in time
 - Lectures
 - Lab exercises
- Read the course material
- Watch Professor Messer's Training Course videos

***Please, switch
you mobile to
SILENT MODE***

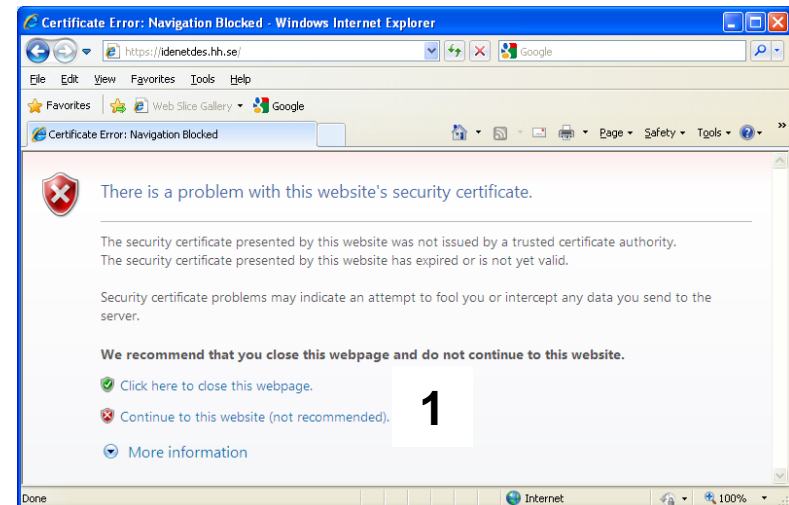
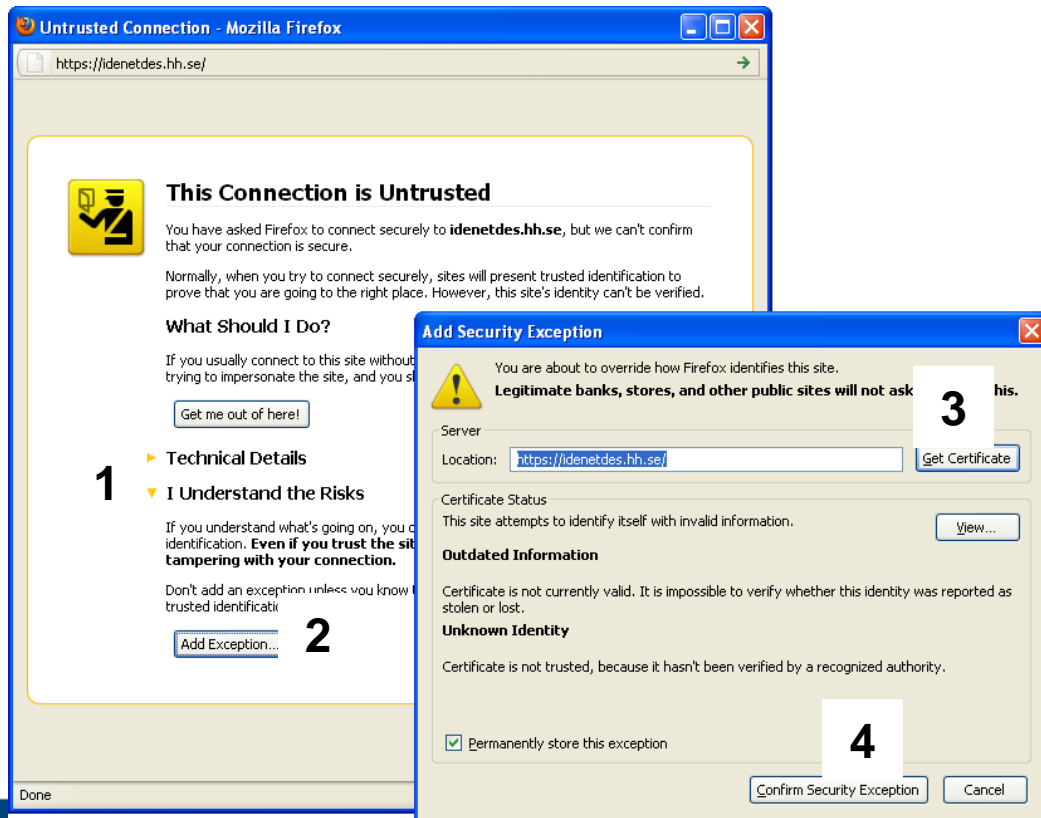
“Students must be the ones who perform activities to make learning happen. These activities will produce knowledge, enrich skills, change attitudes and make them acquire value”

“I missed or failed examination”

- Written exam is given three times at given dates
- Project supervision: written report
- Project exam is given three times at given dates
- More info at the Course Description

How do I sign in for the Labs, project topics and project supervision?

- Step 1: <https://idenetdes.hh.se/>



How do I sign in for the Labs and project topics?

- Step 2
 - First Time

*For security reasons,
a code will be given
to you instead*

here to create a username and password' and 'Forgotten your password? Click [here](#)'."/>

TE2003 - Mozilla Firefox
hh.se https://idenetdes.hh.se/
TE2003
Login
Email address:
Password:
Login
1
First time here? Click [here](#) to create a username and password
Forgotten your password? Click [here](#)

Back'."/>

hh.se https://idenetdes.hh.se/validate1
TE2003
Check your registration
Before creating your username and password please provide the following information to verify that you are registered for this course.
Personal identity number: 2
(YYMMDDNNNN)
Continue
If you have registered recently it may take some time for this to show up in the system. [Back](#)

How do I sign in for the Labs?

- Step 3
 - Login, choose session and register

The left screenshot shows the main dashboard for TE2003. It displays the user's login status as 'test_student@student.hh.se' and provides a link to 'Choose a seminar group'. Below this, there are sections for 'Messages' (No messages) and 'Exercises'. Three exercises are listed, each with a 'NOT REGISTERED' status:

- Exercise 1: NOT REGISTERED. Description: In this first exercise you will, based on your knowledge so far, assemble a PC from its parts, identifying the various components and their use as you go along. **1** [View sessions](#)
- Exercise 2: NOT REGISTERED. Description: In this exercise you will experiment with the basic components on the mother board, learning about how to identify the components and how to evaluate their performance. [View sessions](#)
- Exercise 3: NOT REGISTERED. Description: In this exercise you will work with different types of...

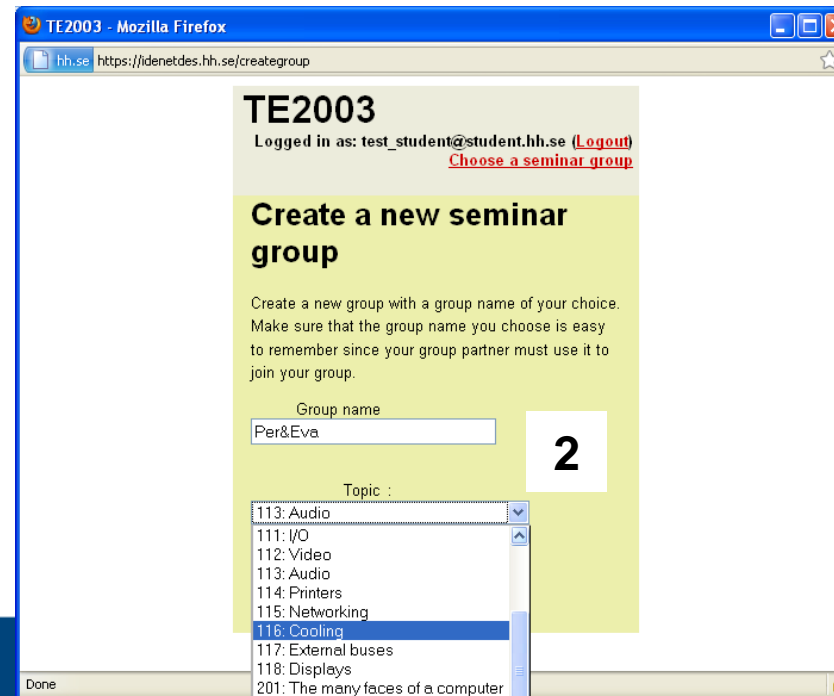
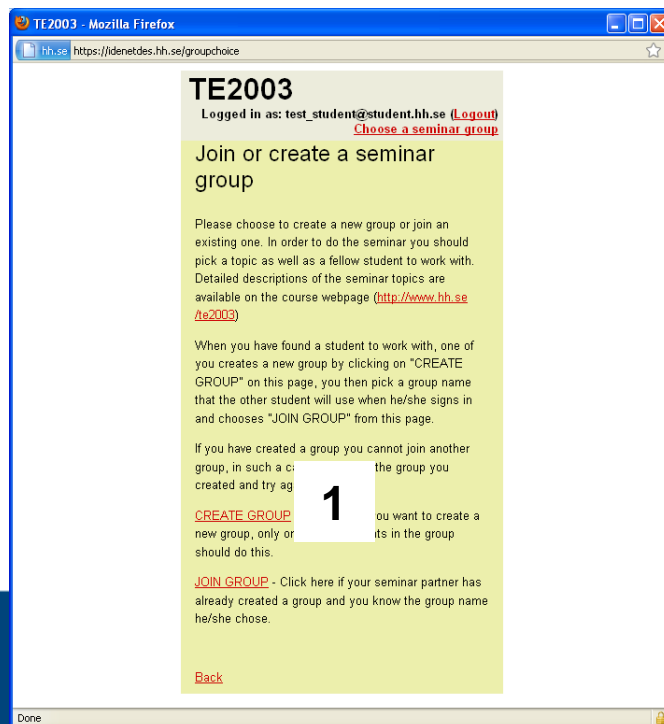
The right screenshot shows the 'Sessions for exercise 1' page. It includes a 'Back' link and a table of session times and availability:

Time	Place	Free places		
Wed Sep 08, 13:15	D513	18	OPEN	Register
Thu Sep 09, 13:15	D513	18	LOCKED	

A large number '2' is overlaid on the right screenshot, indicating the step of choosing a session.

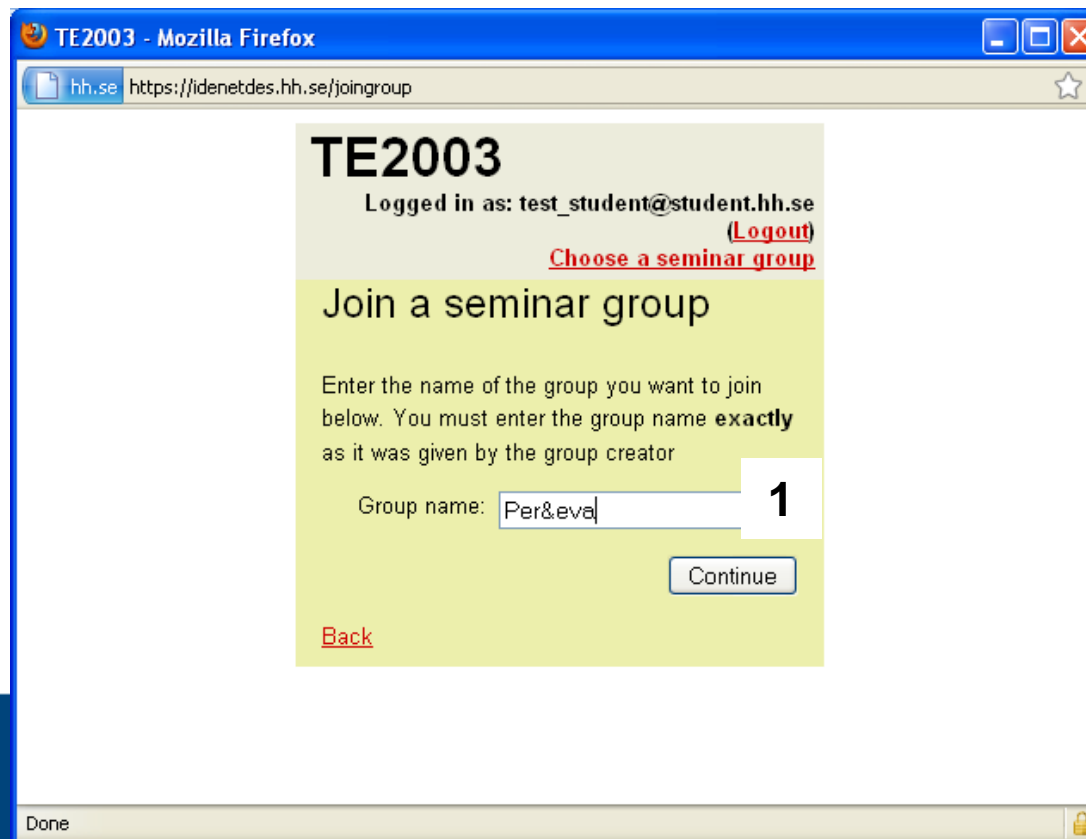
How do I sign in for a project topic?

- Step 1: A group member creates a group and informs a topic
 - 101 to 118 for the English group



How do I sign in for a project topic?

- Step 2: Another group member joins a group
 - Informs the Group name



The screenshot shows a Mozilla Firefox browser window titled 'TE2003 - Mozilla Firefox'. The address bar displays 'hh.se https://idenetdes.hh.se/joingroup'. The page content includes:

- TE2003**
- Logged in as: test_student@student.hh.se
- [\(Logout\)](#)
- [Choose a seminar group](#)
- Join a seminar group**
- Enter the name of the group you want to join below. You must enter the group name **exactly** as it was given by the group creator
- Group name: **1**
-
- [Back](#)

The status bar at the bottom shows 'Done' and a lock icon.

